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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,489	12/14/2001	Hung-Lu Chang	3313-0444P-SP	9998
2292	7590	05/02/2005	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			PSITOS, ARISTOTELIS M	
			ART UNIT	PAPER NUMBER
			2653	

DATE MAILED: 05/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/014,489	CHANG ET AL.	
	Examiner	Art Unit	
	Aristotelis M Psitos	2653	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 November 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Applicants' response of 11/29/04 has been considered with the following results.

Claim Objections

Claims 1-12 are objected to because of the following informalities: the claims need to be rewritten in proper idiomatic English. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

1. Claims 1,3,7, -9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii et al further considered with Evans Jr. et al.

Claims 1-3 are drawn to an optical pickup having three basic components:

- a) a signal writing unit (interpreted as an input means for producing appropriate input signals in order to record information upon a disc;
- b) a signal-processing unit (interpreted as an output means for reproducing information read from the disc;
- c) a pair or conductive wires (interpreted as a pair of coils).

Ishii et al discloses in this environment the ability of having a flat mo coil (see figure 1 for instance), wherein a pair of coils – see figure 8 is appropriately incorporated in a pickup head – is part of an appropriate system – see figure 3 for instance wherein the examiner interprets element 10 as the signal processing unit, and element 7 as part of the signal writing unit. The gap is interpreted as the area between the coils – see the designation p2 in figure 4.

Although the material of the disc is not detailed, discs provided with a ferroelectric material are known in this environment as taught by Evans Jr. et al.

It would have been obvious to modify the base system of Ishii et al with the above disc material taught by Evans Jr. et al, motivation is to use existing materials for discs and hence enable appropriate recording/reproducing.

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With respect to claim 3, the pedestal and function recited is met by the physical structure depicted in figure 1 of the Ishii et al system, i.e., the wires (coils) are mounted on a pole piece 20.

Method claims 7-9 are met when the above system operates.

2. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over the art as applied to claim 1 above, and further in view of WO 99/59147 (relying upon the US equivalent 6448543).

Although the system above to Ishii et al provides for separate input and output sections, there is no "switch" and function thereof.

As depicted in the prior art system to WO 99/59147, as interpreted the ability of "switching" between to operational states is well known and a switch is inherently present in order to operate during the appropriate states.

It would have been obvious to modify the base system as relied upon above in paragraph 1 with the additional teaching from W) 99/59147, motivation is to provide for appropriate signals (input, output) at the specified times.

3. Claims 4-6 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al further considered with Ishii et al and Evans Jr. et al as relied upon above in paragraph 1.

Claim 4 recites a laser diode, objective lens and photodetector in addition to the above structure of claim 1. these elements are considered well known components (optical elements) relied upon in the near-field environment, objective lens, focusing lens, collimator, beam splitter, etc. All of these elements are standard requirements as further discussed by Watanabe et al.

It would have been obvious to modify the base system as relied upon above in paragraph 1, with the above additional elements taught by the Watanabe et al system, motivation is to actually record and reproduce information from the disc. Alternatively, It would have been obvious to modify the base system of Watanabe et al with the above multiple coil pickup head structure of Ishii et al, motivation is to provide for a more compact system.

Method claims 10-12 are met when the above system operates,

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Fujimaki et al and Wang et al – which also depict a multiple coil mo pickup that can be relied upon in place of the Ishii et al base reference in the above rejections.

Matsumoto et al/Yoshimatsu which depict overall mo systems having the appropriate input/output and pick up components.

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aristotelis M Psitos whose telephone number is (571) 272-7594. The examiner can normally be reached on M-Thursday 8 - 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William R. Korzuch can be reached on (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Aristotelis M Psitos
Primary Examiner
Art Unit 2653

AMP

A handwritten signature in black ink, consisting of a series of loops and a long trailing line, positioned to the right of the printed name.